

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 90		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office – ODIN –OP-OS-ODIN Kennedy Space Center, FL 32899		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) OAO Corporation 7375 Executive Place Seabrook, MD 20706-2278				(x)		9A. AMENDMENT OF SOLICITATION NO.
						9B. DATED (SEE ITEM 11)
						10A. MODIFICATION OF CONTRACT/ORDER NO. NAS5-98144/CC90300B
						10B. DATED (SEE ITEM 13) December 1, 2001
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR CLAUSE 52.212-4 CONTRACT TERMS AND CONDITIONS-COMMERCIAL ITEMS, (c) CHANGES						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 1 copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) KENNEDY SPACE CENTER --- ODIN SERVICES Technology Infrastructure Upgrade: BlackBerry Servers Change in Delivery Order Price: \$26,638.17 (INCREASE)						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print) Keith L. Spencer Sr. Contracts Manger			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Penelope A. Ebright Contracting Officer			
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 23 Sep 2003		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 9/26/03
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE		30-105		STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA FAR (48 CFR) 53.243		

1. The purpose of this modification is to incorporate the infrastructure infusion for the acquisition of BlackBerry Enterprise Servers and a surveillance server system at an increased price of \$26,638.17 in the firm fixed price of the Delivery Order.
2. **Description of Services:** The ODIN Contractor shall provide the necessary hardware, software, assembly, installation, and activation of the servers to include the following requirements:
 - a. **BlackBerry Enterprise Servers (BES):**
 - i. Procure and deliver two (2) Dell Power Edge Model 1750 systems as identified on Attachment 1 to the Modification.
 - ii. Install the servers in the OAO-ODIN are in the CIF Building.
 - iii. Configure the server hardware to support the BlackBerry system data services software.
 - iv. Install, configure, and integrate the Government-provided BlackBerry server software onto the hardware systems.
 - v. Verify and integrate the configured systems into the OAO-ODIN institutional IT support structure.
 - vi. The continuing operation and maintenance support costs shall be included in the seat price for the BlackBerry Wireless Service. This seat will be incorporated in a subsequent modification.
 - b. **Surveillance server:**
 - i. Procure and deliver one (1) Dell Power Edge Model 4600 system as identified on Attachment 1 to the Modification.
 - ii. Deliver the server to the NASA IT Security Surveillance room at KSC.
 - iii. The ODIN Contractor is not responsible for any installation, integration, or operation of the surveillance server.
 - iv. The ODIN Contractor shall provide hardware maintenance coordination with the OEM, when necessary, until the end of this delivery order period.
 - c. Upon Government acceptance of the BlackBerry enterprise server, the systems will become part of KSC institutional IT environment defined in the Delivery Order. The ODIN Contractor shall operate and maintain the BlackBerry enterprise servers in accordance with the same service conditions and restore to service as any KSC ODIN institutional server.
 - d. The ODIN Contractor shall be responsible for any necessary modifications to the ODIN security plan to incorporate the BlackBerry service. This shall be accomplished prior to the scheduled installation and activation date.
 - e. The Government shall provide the BlackBerry Enterprise Server software and licenses for the two enterprise servers. The ODIN Contractor shall provide the software maintenance for the server software.
 - f. **Schedule:** Schedule will slip day for day with any delay the milestone activities identified below:

Activity	Date scheduled
Date Modification is issued (Milestone 1)	September 23, 2003

BES system installation	October 17, 2003
BES system installation/activation complete (Milestone 2)	October 21, 2003
Surveillance server verification	October 22, 2003
Surveillance server delivery complete (Milestone 3)	October 23, 2003

- g. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4 (Commercial Items (May 1997) (Modified). Upon Government acceptance of the delivered systems, the ODIN Contractor may invoice in accordance with the following milestone payment schedule:

- i. Milestone 2 (BES system) \$10,630.00
- ii. Milestone 3 (surveillance system) balance of price (\$16,008.17)

3. Delivery Order Part II, Item 4 is revised to include the increase of \$26,638.17.00 for this infrastructure upgrade:

ESTIMATED TOTAL (Contract Item 4) through Mod 090

Ordered Seats and Services	\$ 16,784,585.26
Catalog Services	\$ 1,546,970.37
Specialized Services	\$ 16,350.00
Infrastructure upgrades	\$ 1,572,600.20
Other Efforts	\$ -
Fast Track Mods Authorized	\$ -
Subtotal	\$ 19,930,505.83
Less credits	\$ (196,962.57)
Less outages	\$ (3,674.88)
Less retainage not earned	\$ (76,486.64)
Subtotal	\$ 19,653,381.74
Seats/service levels projected through 11/30/04	\$ 12,846,465.65
Catalog Projections	\$ 2,653,029.63
Specialized Services Projections	\$ 33,650.00
Total <u>Estimated</u> Delivery Order Value	\$ 35,186,527.02

4. Delivery Order Part V "Technology Infusion (Infrastructure Upgrades)", Item 2 is modified to include subject infrastructure upgrade:

Mod. No.	Description Of Work	Date Signed	Completion Date	Modification Value
90	BlackBerry enterprise and surveillance servers			\$26,638.17

5. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustment attributable to such fact or circumstances giving rise to these changes.
6. All other terms and conditions remain unchanged.

Following deliverables are identified and accountable within the context of the "Blackberry Enterprise Server and Surveillance Server Systems".

Two (2) each BES Servers with hardware consisting of the following: (Dell product information)

Catalog Number	Description	Product Code	SKU
PowerEdge 1750:	PowerEdge 1750, Intel Xeon 2.8GHz w/512K Cache, 533MHz Front Side Bus	175285	221-098
ADDITIONAL PROCESSORS :	Single Processor for 533FSB	1P533	311-3141
Memory:	1GB DDR,266MHz,2X512MB DIMMS	1GB2D	311-2441
Keyboard:	No Keyboard Option	N	310-3281
Monitor:	No Monitor Option	N	320-0058
PCI RISER:	2X64/133MHz PCI-X Riser	64BPCI2	320-0623
1st Hard Drive:	36GB,10K RPM, 1in (Ultra 320) SCSI Hot Plug Hard Drive	36HP10	340-8357
Hard Drive Controller:	PERC4-DI, 128MB Battery Backed Cache, 1 Int 1 ext Ch-Embedded Raid	ROMB128	340-8156
Floppy Drive Options:	1.44MB Diskette Drive	FD	340-3612
Operating System(s):	Windows Server 2003 Standard Edition with 5 Client Licenses	W2K3SVR	420-2965
Mouse:	No Mouse Option	N	310-0024
1st Network Adapter:	Dual Onboard NICS for 533Mhz Front Side Bus	OBNICS	430-8991
CD-ROM or DVD:	24X IDE CD-ROM	CD24X	313-1281
BEZEL:	No Bezel Option	NOBEZEL	313-0869
DOCUMENTATION:	Users Manual,Installation and Trouble Shooting Guide on CD	EDOCS	310-0438
2nd Hard Drive:	36GB,10K RPM, 1in (Ultra 320) SCSI Hot Plug Hard Drive	36HP10	340-8357
HD Configuration:	On-Board RAID 5, 3 drives connected to on-board RAID	MR5	340-8166
RACK RAILS:	Versa Rails for Non-Dell Rack	3RACKF	310-3956
Installation:	No Installation	NOINSTL	900-9997
Power Supplies:	Redundant AC Power (2X320 Watt Power Supplies) 533 FSB	REDPWR5	310-4223
Power Cords:	Redundant AC Power (2X320 Watt Power Supplies) 533 FSB	REDPWR5	310-4223
3rd hard Drive:	36GB,10K RPM, 1in (Ultra 320) SCSI Hot Plug Hard Drive	36HP10	340-8357

One (1) each Surveillance Server with hardware consisting of the following: (Dell product information)

Catalog Number	Description	Product Code	SKU
PowerEdge 4600:	Intel® Xeon™ Processor at 3.0GHz, 512K Cache	46300	221-2891
Additional Processors:	Intel® Xeon™ Processor at 3.0GHz, 512K Cache	2P300	311-2900
Memory:	3GB DDR SDRAM 12X256MB	3GB12D	311-3043
Keyboard:	Standard Windows Keyboard, Gray	S	310-1676
Monitors:	No Monitor Option	N	320-0058
1st Hard Drive	73GB 15K RPM Ultra 320 SCSI Hard Drive	73GB153	340-8469
Primary Controller:	PERC3/Di 128MB (2 Internal Channels) - Embedded RAID	ROMB128	340-2904
Diskette Drive:	3.5in, 1.44MB FLOPPY DRIVE	FD	340-2903
Operating Systems:	NO/OS Other	NOOS/O	310-1261 420-4106
Mouse:	No Mouse Option	N	310-0024
Network Adapters:	Dual On-Board NICS Only	OBNICS	430-8991
CDROM or DVDROM:	8X DVD-ROM	DVD8X	313-4952
Hard Drive Backplane:	1X8 Hot-Pluggable Hard Drive Backplane	1X8BKPL	311-1116
Documentation:	Electronic Documentation	EDOCS	310-1989
2nd Hard Drive:	73GB 15K RPM Ultra 320 SCSI Hard Drive	73GB153	340-8469
Hard Drive Configuration:	Embedded RAID 5 on Main Bkpl, Embedded RAID 1 in Media Bay	MR5MR1	310-0606
Chassis Orientation:	Tower Orientation	TOWER	310-0631
Hardware Support:	3Yr Same Day 4Hr Response Parts + Onsite Labor (7 Days x 24 Hours)	GOLD4U	900-6352 900-6810
Installation Support Services:	No Installation	NOINSTL	900-9997
4th Hard Drive:	73GB 15K RPM Ultra 320 SCSI Hard Drive	73GB153	340-8469
3rd Hard Drive:	73GB 15K RPM Ultra 320 SCSI Hard Drive	73GB153	340-8469
Power Supply Kits:	Redundant Power Supplies	REDPWR	310-1344
Media Bay Hard Drive Cage:	1X2 Hot-Pluggable Hard Drive Cage	CAGE	340-6737
Cluster Status:	No Cluster Info	NOCLUS	461-1306